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CENTRAL INTELLIGENCE AGENCY

Deported Experts of the Aircraft Engine Group under Doctor Scheibe

Soviet manager: Colonel (engineer) Kuznetsov (fnu)

German manager: Doctor Engineer Scheibe (fnu)

1. Planning Section

Chief: Doctor Josef Voigts.
Soviet deputy: Radshenko (fnu).

The personnel of the planning section included:
Doctor Engineer Habil. Helmut Heinrich - a mathematician who worked on thermal calculations and also invented some new calculating systems for the Soviets.
Graduate Engineer Hugo Leipert - a turbine expert, who worked on the projecting of turbines.
Engineer Lorenzen (fnu) - a well-known propeller specialist, who previously worked in the gear section. When this section was disbanded after the Jumo and BMW teams were combined, he evaluated foreign literature, a job which could not satisfy such an outstanding expert.
Graduate Engineer Pavlovitsch (fnu) - he engaged in thermal technical calculations, projects for combustion chambers, and also functioned as an interpreter.
Engineer Anderlen (fnu) - an outstanding gear designer and constructer of turboprop 022 gear.
Engineer Gassenmaier (fnu) - Gear constructer who worked on general designs.
Technician Hans-Joachim Koelfer - worked on detailed designs for Anderlen and Gassenmaier.
Engineer Esser (fnu) - engineer in charge of mathematical calculations.
Engineer Horst Schneider - took an important part in the designing of the TS starter engine for turbojet power plants. He constructed a less complicated starter gear.

2. Thermodynamic Section

Chief: Doctor Phil. Habil. Gustav Schulze.
Soviet deputy: Engineer Pervishin (fnu).

Among the experts of this section were:
Graduate Engineer Ferdinand Kuemmel - aerodynamic expert, in charge of power rating, not fully utilized, key position.
Graduate Engineer Herbert Claus - engineer in charge of mathematical calculations. The engineers worked with electric calculating machines from the Junkers Plants.
Graduate Engineer Redenz (fnu) - engineer in charge of mathematical calculations.
Engineer Josef Zocher * - engineer in charge of mathematical calculations.
Doctor Phil. Schwabe (fnu) * - mathematician.
Engineer Stefan Urban - engineer in charge of mathematical calculations specializing on combustion chambers.
Graduate Engineer Frimborn (fnu) - evaluated testing data for Kuemmel.

3. Strength of Materials Section

Chief: Doctor Engineer Scheinost (fnu), stability expert.
Soviet deputy: Engineer Shnerson, mathematician.

The specialists of this section included:
Doctor Phil. Rudolf Schmidt - who made experiments with stability and vibration.
Engineer Bories Haas - expert for stability calculations.
Graduate Engineer Rieckel (fnu) - mathematician.
Graduate Engineer Stuebel (fnu) - expert for statics and stability.
Graduate Engineer Richter (fnu) - liaison man between the strength section and the material section.

4. Propeller Section (small team)

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Chief: Graduate Engineer Leuthold (fnu).

The team included the engineers Wilhelm Ulmitz and Scheumann (fnu). As the propeller was the only part of the turboprop power plant 022 not functioning, Leuthold and his team worked hard under Soviet pressure.

5. Small Instrument Section

The section was in charge of control devices with regard to the planning, construction, altitude problems, automatic functioning, and testing.

Chief: Creuzburg (fnu) - was mainly engaged in tests with fuel pumps and control devices. As the Soviets were completely inexperienced in this field, Creuzburg was of great importance to them.
Soviet deputy: Engineer **Anisimov** (fnu).
German deputy: Engineer Wille (fnu).

Among the experts of this section were: Juettner (fnu)*, Sloczyk (fnu)*, and Engineer Oppermann (fnu)*.

It was believed that without Juettner and Sloczyk the activities of this section would have been very restricted. Two Soviet engineers coming from a large engine plant in Kazan were attached to the team, in order to learn the German process of construction. They were older men who highly respected their German collegues.

6. Small Instrument Section

This group was engaged in the same activities as the other small instrument section and could be considered as a second shift.

Chief: Engineer Reinhold Werner.
Soviet deputy: Graduate Engineer **Kruchkov**

The experts of this section included:

Graduate Engineer Jacob (fnu).
Engineer Vietze (fnu) - constructor of control devices.
Graduate Engineer Juergens (fnu).

7. Testing Section (Completed Power Plants)

Chief: Engineer Karl Prestel. According to his position and functioning, he was equal in rank to Schaibe. Prestel was an expert for control devices and therefore of great importance to the Soviets, who were helpless in this field and who, according to the German scientists, were incapable of handling precision mechanics. No Soviet deputy was permanently assigned to this group, as all of them failed. The last Soviet deputy was Engineer Groshev, who also had to go.

The section was arranged in three teams:
Team of Engineer Korb (fnu) - an outstanding test engineer at the Jumo Plant.
This team included:
Engineer Brauer (fnu) - test stand engineer.
Engineer Felix Werner * - test stand engineer.
Engineer Muench (fnu) * - test stand engineer.
Engineer Stanislaus Klups * - test stand engineer.
Engineer Herbert Kersten * - test stand engineer.

The team of Graduate Engineer Wagner (fnu) included Engineer Wollmann (fnu), test stand engineer.
The team of Engineer Otto Mueller tested the TS starter engine. Engineer Hanfler (fnu) * belonged to this group.

Graduate Engineer Flugkapitaen George Pohl and his group were connected to the test section. Pohl was in charge of the so-called documentation of the state test and personally translated the German test reports, a job he accomplished exceptionally well.

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8. Section for Test Stand Measuring Instruments

Chief: Engineer Gimm (fnu).
Soviet deputy: Captain (engineer) Sergeyev.

The personnel of this section included Engineer Bohn (fnu) and Foreman Arzberger (fnu).

There were many male and female Soviet engineers working at the test stands, who did not understand the technical details. Among the German personnel were skilled old mechanics from Junkers who were of great importance. The section was in charge of the installation and maintenance of measuring instruments.

9. Constructing Department:

Chief: Graduate Engineer Ferdinand Brindner.
Soviet deputy: Major (engineer) Semënov (fnu).

The department was composed of the following groups:

a. Compressors:

Chief: Engineer Deinhard (fnu).

The personnel of this group included:

Doctor (engineer) Hans Joachim Schroeder - assistant of Brandner.
Graduate Engineer Gustav Wolf *
Engineer Josef Faust * - in charge of calculations for the compressors.
Engineer Heinz Schueler - constructing engineer.
Engineer Kurt Schlimper *
Engineer Sablinski (fnu) - constructing engineer.
Graduate Engineer Wiemann (fnu).
Graduate Engineer Rolf Kleinau - test engineer.
Engineer Hartleib * - constructing engineer.

The Soviet Engineer Nadezhda Siderova and several other Soviet engineers were attached.

b. Combustion chambers

Chief: Graduate Engineer Manfred Gerlach.
Soviet deputy: Engineer Kuznetsov (fnu).
German deputy: Graduate Engineer Waldmann (fnu).

Gerlach theoretically and practically tried to solve the problem of the combustion chambers, which were the deadlock in the development of turbojet power plants and the weakest point of the whole project.

The experts of this group included:

Graduate Engineer Schmarje (fnu) - worked on the physico-chemical process in the combustion chambers, theoretical calculations of temperatures, and dimensions of flames.
Graduate Engineer Beck (fnu) - worked together with Schmarje.
Graduate Engineer Guenther Lange - made constructive experiments to solve the problem of combustion chambers.
Graduate Engineer Kasche (fnu) - was engaged in the constructing of ignitions.
Graduate Engineer Fuchs (fnu) - in charge of general constructing.
Baumsteiger (fnu) - was the only man remembered among the detail constructors and mechanics.

c. Combustion Chambers (small experimental team)

This team worked on experiments with the flame conduction.

The personnel included: Engineer Kurt Jaeger, Engineer Raul Luellwitz, Engineer Josef Schaedler, Freihammer (fnu) - evaluator, Fleck (fnu) - evaluator, and several Soviets.

Turbines and Thrust Nozzles

Chief: Doctor Engineer Gerhard Cordes. His Soviet deputies changed often. The last one was a red-haired Jew whose scientific knowledge was far below Cordes'.

Among the experts of the group were:
Graduate Engineer Hahnel (fnu) - engaged in mathematical calculations.
Engineer Hans Dickes - calculations for turbine blade projections.
Engineer Rademacher (fnu) - calculations for turbine blade projections.
Graduate Engineer Stadelmann (fnu) - expert for turbine projections.
Engineer Bake (fnu) - constructing engineer.
Engineer Alwin Kercher * - constructing engineer for thrust nozzles.
Engineer Zipper (fnu) * - calculating engineer.

d. **Reduction gears for the Turboprop Power Plant 022**

Chief: Engineer Richard Elze.
Soviet deputy: Graduate Engineer Stolyarov (fnu).

Among the experts of this group were:
Graduate Engineer Dingetal (fnu) - constructing engineer.
Engineer Hundhausen (fnu) - constructing engineer and production expert for cogwheels and conical wheels, a field which has not been mastered by the Soviets.
Engineer Guenther Haag *.

e. Small Instruments

Chief: Engineer George Maier.
Soviet deputy: Graduate Engineer Golovkin

Among the experts of this group were:
Singer (fnu) * - attached to Maier and worked on turbo jet engines for the production.
Engineer Wonz (fnu) * - constructing engineer for control devices.
Engineer Schlechte (fnu) * - constructing engineer.
Engineer Schroetter (fnu).
Engineer Teuchert (fnu) - worked on pipe lines.
Foreman Muestenhagen (fnu). The group worked on purifying filters for fuel, lubricant circulation, defoaming of oil, cooling of oil, connection pieces, oil pipes, and injection nozzles. The oil pipes were the major problem, as the metals used for them broke and plastics were not available.

f. Supervising Section for the Drawing Group

Chief: Mayer (fnu) *.
Among the experts of this group were Engineer Wilhelm Loeller * and Engineer Straussberg (fnu) *.

The Section was disbanded as the Soviets considered their work unnecessary.

g. Section for special purposes:

Chief: Engineer Heinrich Schneider.

The section included:
Fritz Kassuelke * - merchant with technical knowledge, who kept index file on the constructing groups. The Soviets were absolutely inexperienced in this field.
Engineer Walter Wiedicke * - in charge of the index file on defects. The Soviets took great interest in this file.

h. Archive and Blueprint Section

Chief: Graduate Engineer Rudolf Kercher *.

Among the experts of this group was Alt (fnu), assistant of Kercher.

The Soviets took over the secret archive during the end of the reported time.

i. Plant Installations: (independent team)

Chief: Engineer Treiber (fnu).

Among the experts of this group were Graduate engineer Kurt Pfluegel and Graduate Engineer Doernhoefer (fnu).

Six additional engineers of minor importance worked as designers. The group was in charge of the plant installations and of the construction of test stands.

j. Operations:

Chief: Soviet Graduate Engineer Kucherenko (fnu).

The experts of this group included:
Engineer Makella (fnu) - fabrication expert.
Doctor Bredendick (fnu) - expert for the manufacturing of blades and for profile milling.
Engineer Bukowski (fnu) - assembly expert.

In addition there were also ten foremen and mechanics in this group. This German group had a difficult position, because they worked under constant Soviet pressure and were held responsible for failures originating in the lack and poor quality of the materials.

k. Preliminary Preparations for the Production:

Soviet Chief: Engineer Materanski (fnu).

Among the experts of this group were:
Engineer Genge (fnu) - cogwheel expert.
Salzmann (fnu) - constructing engineer for jigs and fixtures.
Graduate Engineer Kastens (fnu) - constructing engineer jigs and fixtures.
Auerswald (fnu) and many experts were released on 22 September 1950.

l. Materials Section:

Chief: Doctor Max Lorenz, expert for metal works.
Soviet deputy: Engineer Ustinov (fnu).

Among the experts of this group were:
Engineer Hans Steudel.
Graduate Engineer Goetz (fnu) - Physician and measuring expert.
Engineer Willi Ropohl.
Engineer Radke (fnu).
Doctor Phil. Heinz Schnetz.
Doctor Hans Lorenz.
Engineer Soecknick (fnu) - chemist supervising fuel analyses.
Ernst (fnu) *.
Eberschulz (fnu).
Engineer Poell (fnu).
Engineer Glueck.

m. Small Foundry for Aluminum

Chief: Doctor Engineer Heinz Anspach.

n. Section for Production Tests

Chief: Engineer Moll (fnu).
Soviet deputy: Engineer Permiakov.
German deputy: Engineer Vogt (fnu) *.
Engineer Berger (fnu) *.

* was released on 22 September 1950